Future Flight Design			
1998 Science			
Content Standards			
California Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	CA	SCI.5.IE.6.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Identify a single independent variable in a scientific investigation and explain how this variable can be used to collect information to answer a question about the results of the experiment
Air Transportation Problem	CA	SCI.5.IE.6.g	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Record data by using appropriate graphic representations (including charts, graphs, and labeled diagrams) and make inferences based on those data
Future Flight Design			
1998 Science			
Content Standards			
California Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	CA	SCI.6.ESIE.7.b	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data

Air Transportation Problem	CA	SCI.6.ESIE.7.d	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Communicate the steps and results from an investigation in written reports and oral presentations
Future Flight Design			
1998 Science			
Content Standards			
California Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	CA	SCI.7.LSIE.7.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Select and use appropriate tools and technology (including calculators, computers, balances, spring scales, microscopes, and binoculars) to perform tests, collect data, and display data
Air Transportation Problem	CA	SCI.7.LSIE.7.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Communicate the logical connection among hypotheses, science concepts, tests conducted, data collected, and conclusions drawn from the scientific evidence
Air Transportation Problem	CA	SCI.7.LSIE.7.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Communicate the steps and results from an investigation in written reports and oral presentations

Future Flight Design			
1998 Science			
Content Standards			
California Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Aircraft Design Problem	CA	SCI.8.PC.2.a	Students know a force has both direction and magnitude.
Aircraft Design Problem	CA	SCI.8.PC.2.b	Students know when an object is subject to two or more forces at once, the result is the cumulative effect of all the forces.
Aircraft Design Problem	CA	SCI.8.PC.2.d	Students know how to identify separately the two or more forces that are acting on a single static object, including gravity, elastic forces due to tension or compression in matter, and friction.
Aircraft Design Problem	CA	SCI.8.PC.2.e	Students know that when the forces on an object are unbalanced, the object will change its velocity (that is, it will speed up, slow down, or change direction).
Aircraft Design Problem	CA	SCI.8.PC.2.f	Students know the greater the mass of an object, the more force is needed to achieve the same rate of change in motion.